CARING FOR THE YOUNGSTER'S HAIR.

Continued From Page One.

his manner, until the air reaches every ch of the scalp. Go over the whole head ifting and shaking and letting the air into

The massaging of the scalp is a good thing if a little oil be used, Castor oil is the best of all oils, but it is apt to be affensive, and for this reason oilve oil or sweet almond oil can be substituted. The scalp is taken inch by inch, and the oil is rubbed

If the hair shows a tendency to be thin on top, a very gentle pounding of the scalp will sometimes stimulate the roots. Part the hair, lift the hands so that the ick of the hand comes down upon the scalp, and, ever so gently, go over the whole head, wherever the hair seems to be thin. If the little girl's hair is too straight for beauty it can be waved, but before doing it up it should be very lightly meistened

shake. Lift the hair lock by lock in smanner, until the air reaches every in of the scalp. Go over the whole head ting and shaking and letting the air into very roots.

The massaging of the scalp is a good ing if a little oil be used. Castor oil is the st of all oils, but it is apt to be offensive, if the mole is of the scalp is a good ing if a little oil be used. Castor oil is the st of all oils, but it is apt to be offensive. He hairs by utiling them out. Repeat once in three weeks or as often as they appear. Bleach the mole to a light shade.

Dear Miss Marticeau: How can I take superfluence that makes it impossible to a heavy growth that makes it impossible to a heavy growth that makes it impossible to a heavy growth that makes it impossible to wear short sleeves. By answering you will wear short siscues. By answering you will greatly oblige A CONSTANT READER.

This is one of the must annoying of all troublet. Get pure proxide of hydrogen and warh the arms with it. The object is to bleach the lair upon the arms to a light shade. Put ammonia in the peroxide and use frequently. You will in time rain the roots of the hair, and the arms will grow laid. Meanwhils the fair will be light in tone and will be much less unsighing.

Dear West Martinsau, Press tell me how to

Dear Miss Martineau; Please tell me how to close the perce in my noce. They are large and

beauty it can be waved, but before doing it up it should be very lightly moistened with i-kewarm water. Do not wet the roots and let the hair be very elightly dampened. Do not really wet it, but moistened the paims of the hands and rub them over the hair. This will make a sufficient moisture to give the wave.

The child's hair should be done up on kid wrappers or on very soft paper. Hars will answer the purpose, but there should be nothing done that will pull the hair by the roots. The wrappers should be tied some inches from the end and not screwed tight to the scalp, as is too often done.

It is far better for the little girl's head to let mature alone in the matter of waving and not try to force it into an unnatural curl, for the child's head is pretty enough if the hair be kept light and clean and if the made to grow thick and is tastefully dressed. Curling must always injure it more or less, for it surely breaks the hair.

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Answers to Correspondents in Regard to Beauty Quest.

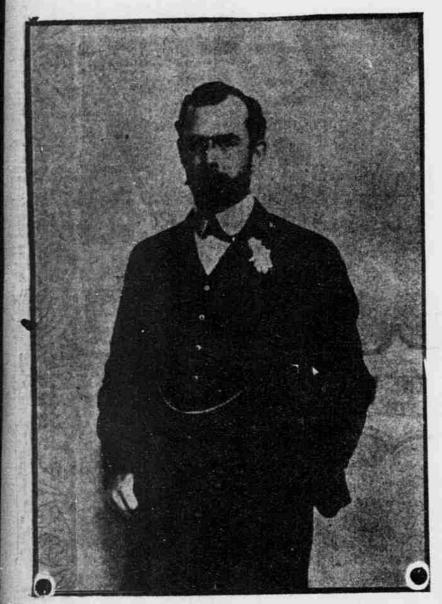
Dear Miss Martineau: Will you kindly tell me how I can treat superfluous hair on the upper lin without the use of electricity? I have found your talks in the paper very hench full. Is It possible for you to answer this? A SUBSCRIBERL.

Try numice stone. Moisten it in lakewarm water and rub it on the upper lin so as to britist it the kin. Repeat once a day until you have surabhed the hair off.

Dear Miss Martineau: Can you answer through the colourns of the more and tell me how to get rid of hair moles on the face? I are troubled with three that cause me a great deal of annoyance.

MISS 7. S. W. You can have the moles remived. There are people who make a business of taking off facial blemishes. One way, now being trid, it to simply shave out the mole. The work must be done by a physician, who takes his kinife and curs of the excrescence. It is done in a second and is

JAMES J. HILL'S Sons Are Being Trained to Take Up Work of Their Father in World of Finance.



road king of the Northwest, is being carefully trained to take up the work of his father. He and his brother James are both graduates of Yale. They have gone through every department of the Great Northern coutive offices, spending six months or a with Jim Hill or kill him."

Louis W. Hill, son of James J. Hill, rail- | year in familiarizing themselves with each and obtaining a practical knowledge of the methods which have been used with such enormous success by their father. Louis hopes he will live to see the day when the rallroad world will say of him as they now road, from the construction work to the ex- say of his father: "You must either agree

RISKS TAKEN BY SCIENTISTS.

WRITTEN FOR THE SUNDAY REPUBLIC. When Lord Kelvin has once solved a problem in mathematics, he is willing to stake upon its correctness, not only his rep-utation, but his life. This led to an experiment which seemed to the spectators ap-

pallingy hazardous. The great scientist calculated what was the exact size of the smallest steel wire capable of bearing the weight of a fifty-sixbound cannon hall. He then procured a wire of this diameter, and, to prove the correctness of his figures, suspended the big lump of iron from the ceiling exactly over the spot where he stood when delivering his lectures. There it remained for several weeks. If the wire had gone, nothing could have saved the great scientist from a fatal

No men walk more calmly open-eyed into peril than the followers of science. Those interested in electricity will remember how. n few years ago, Nikola Teela, to prove the truth of his theory of vibratory electricity, passed through his own body a current supposably powerful enough to kill an elephant. He had no practical means of tell-ing before he connected the wires whether the next second he would not be lying dead. But his theory proved to be true, and he

Living Among Wild Beasts.

Few people are brave enough to venture into a lion's cage. The very idea of enter-ing a cage with a monstrous snake is repellant. Yet, for the purpose of examining the eyes of these creatures, and proving whether they possessed the "yellow spot," which man uses in reading, Mr. A. W. Head, F. Z. S., has recently spent hours in the cages of wild beasts. For the pur-

end, at a distance of only half an inch.
Some of the wild creatures thus examined were tied in eacks or muzzled; but others were tied in eachs or muzzied; but others were driven mad by such confinement, and with lions, tigers and the rest of the cat family, patience and coaxing were the artist's only weapons. With the pythons, too, and the boaconstrictors, the artist found it iving man has come nearer to losing his necessary to hold the heads of these giant life in his work.

reptiles with one hand, whilst he worked with the other.

Speaking of snakes, Professor Calmette of the Pasteur Institute has for years been at work in the effort to discover an anti-dote to snake poison. In the course of his researches he has handled and extracted the venom from rattlesnakes, death-adders, cobras, namedryads and almost every deadly reptile on earth.

Quite lately came his first accident. He was bitten on the hand by a large and lively cobra. Bo deadly is cobra venom that a Hindoo once bitten gives up hope and lies down at once to die. Death comes in from twenty to thirty minutes. Mon. Calmette merely injected some of his new serum, and was at work again next day. Unfortunately, he again polsoned the wound, and has been forced to have the finger amputated. But this loss seems to trouble the plucky scientist very little.

Ten Days Without Food. Interest in the El-fated Andree expedition has recently been revived by the story that the explorer and his two companions were shot by Eskimos instead of being drowned as supposed. If ever men took ther lives in their hands for the sake of science these were Andree and his fellows. Yet, certain as their fate is, it does not deter others from all manner of equally risky experi-ments in the cause of knowledge. Doctor Hutchinson of Cambridge recently ascended from the Crystal Palace for the purpose of chasing the ever-active bacillus in the higher reaches of the atmosphere. He was caught in a strong gale and whirled away. but succeeded in dropping near Canterbury none the worse for h'a experience.

Preparations for a far more daring test are being made by Herr Zekeli of Pots-dam, a German balloonist. In May or June in the cages of wild beasts. For the purpose of this investigation the eye of each separate animal has had to be examined for a period of not less than two hours on end, at a distance of only half an inch.

Some of the wild creatures thus examined will be used, and the giant alreship will ware that in sack or muziled, but others. German, Captain Sigsfeld, recently lost his life in a somewhat similar attempt.

On May Day, 1895, he and his men had | nearly two miles wide. A duck rose with finished all their water, and were mad a splash, and there at last was a pool of with raging thirst. Yet for nine days afterwards the explorer went on and on through the awful sandy waste resolved not to die. He lay stripped on the sand to abtoring the sand waste resolved not to die. He lay stripped on the sand to abtoring the sand drank, he says. "It was a most lovesorb its moisture, chewed the green leaves of desert shrubs, and when strength had almost left him, crawled forward on all fours towards the distant belt of green forest where he felt that water lay.

His last follower dropped. He went on. He resched the river. It was dry. Still on hands and knees he crossed the bed. It was

1,300 feet and its width 525 feet. Eight domes and eight spires and one massive tower

Government to complete the geological sur vey of a tract of wild and desolate country.

Mr. Clarence King, who was in charge, was forced to employ such assistants as he could be a such and lawless. could get on the spot—a rough and lawless set. It was hard work to keep them together. One day a man deserted. Mr. King knew what that meant. If the man were unpunished a stampede would follow, and the whole expedition would fall. He chose

a companion upon whose silence he could rely, mounted and took the trail. A Lesson to Deserters. On the third day they ran down the de-

cult to dispose of her costly castle, far re-moved from London and inaccessible. Last summer she was in Sweden, where her huswhich happened to be near. The deserter had subsisted on what game he could kill. His horse, a white one, was stained with the blood of raw meat which had been tied the deserter's crimson-streaked horse. He said not a word to the men. Curiosity at length drove them to inquire what had belength drove them to inquire what had become of the deserter. Their leader glanced
meaningly at the blood-stained horse. "He
is gone," he said, "where anybody else who
tries to desert will go, too." The discipline
and it won't act."

The first meetings at which the prelimi-naries of organization were discussed took place in July. At a meeting held last week the election of officers took place, and plans were definitely shaped. The clubrooms were leased and the headquarters of the employment bureau were chosen at No. Broadway.

Emil J. Bauer, chef at the Mercastle Club, was elected president of the associa-tion; Matthew Rhule, chef at the Laciede Hotel, was chosen vice president; Frank

SPIRIT OF ORGANIZATION HAS SEIZED ST. LOUIS COOKS. &

CHEFS AND THEIR ASSISTANTS HAVE BANDED TOGETHER IN A SOCIETY KNOWN AS THE "CULINARY PROTECTIVE ASSOCIATION," THUS TO RENDER THEMSELVES INDISPENSABLE AND OF SERVICE TO EACH OTHER



ALBERT RUSCHMANN, MATTHEW RHULE AND JOSEPH T. ALBRECHT, OFFICERS OF OR-GANIZATION.

ard among cooks is to be raised. Then, if the cooks are better the food will be better cooked and the public, by having a chance to sample it, will be educated into knowing of stature and extremely nervous in temcooked and the public, by having a chance to sample it, will be educated into knowing good cooking. Thus is the Culinary Prothe officers. No distinction in rank exists. The chefs in the large kitchens, who are artists imported, who devise new dishes to satisfy epicurean tastes, who are paid enormous salaries, have joined hands with

wage scale. But nevertheless the july "sirioin medium," the extra cut of beef, the

broiled lobster and the various other viands and delicacies calculated to titilize the pai-ate, will hereafter savor of the blue label,

gince they will have been cooked by a mem-ber of the Culinary Protective Association.

Up to date 150 cooks have entered the "as-sociation," with more coming, according to

a host of subordinates who are not chefs, but just cooks.

the association will do much to spread abroad the fundamental principles of their

art and at the same time will have a dis-

tinctively educative effect upon the public

ation. As the society grows each new member will have the opportunity to ac-quire a little of the knowledge possessed by

It is a new thing here, and the members are hopeful of the future. They think that But, if France has the cooks, all the world has an appetite. Consequently French cooks are drawn to America and are now superintending the culsine in many of the best eating-houses the country over. A goodly percentage of the members of the new pro-Associated, they think that new ideas will be more freely discussed and put into opertective organization are Frenchmen.

Society Will Provide Death and Sick Benefits.

older members who are grand past masters - Jules Edouard Bole, chef at the Planters of cookery. In this way the general stand- Hotel, is one of these Frenchmen, whose

ocation, with more coming, according to the officers. No distinction in rank exists. The chefs in the large kitchens, who are paid enormous sularies, have joined hands with a host of subordinates who are not chefs, but just cooks.

Members Say Society Will

Educate the Public Palate.

Brethren of the trade think that the formation of the society is a great step forward in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here, and the members in the cooking business in this city. It is a new thing here of the frenchman is treated with respect to the following of a clarge here of a large here of a large here of a large here of an and the colors are grating the produces the toulinary personent. The oclor and extremely nevous in temperature. The color that the cubin and extremely nevous in temperature, to color and extremely nevous in the color and extremely nevous in the cubin and e

ed in Chicago and there is no reason why it should not be here. The association will provide death and sick benefits and will operate a cooks' employment agency. Clubrooms have been rented by the association at Seventh and St. Charles streets. There

monthly meetings will be held.
"Yes many of us come from France. But a good many from Switzerland and Germany, too. There are a great many hotels | baker complete the list. in Switzerland

People go there from all over the world

understands all the details of actual cock-ing. Next in line are the second cook and the night chef. As the chef might be called the general manager of the kitchen, his assistants might be termed superintendents, one of whem is on duty during the day and the other at night. Then come the broilers, the roast cooks and the fry cooks. The

kitchen butcher, the pastry cooks and the The kitchen butcher is very different from the ordinary butcher. He must know much as to making certain cuts of meats. Every order requires a different cut, and in fashand they want good things to cut when they get there. For that reason the Swiss have

mitted as full-fledged cooks to the organ tion just formed.

Krnemer treasurer, Albert Rus financial secretary, Charles Busse corresponding secretary. Other chefs who have joined are Will Graham of the Southern Hotel, August Sommers of the new Bank of Hotel, August Sommers of the new Bank of Commerce restaurant, Henry Retiner of the St. Louis Club, Henry Delts of Faust's res-taurant, Pascal Morese of the Lindell Hotel, Alfred Andebowd of the St. Nicholas, Paul Borella of the Rosier Hotel, Jack Kramer of the Westmoreland Hotel, Jule Lamotte of the Noonday and University Clubs and Appart Rodears of Memphis, Tenn. August Rodeare of Memphis, Tenn.

of that camp during the rost of the basard

water up to his waist and uncertain where

the passage lay. In the stiffing gloom he was forced to feel around the walls, the water rising with terrible rapidity. It was only just in time that he found the entrance

and staggered up the passage into safety.

The recent visit of Adelina Patti, the great est of modern singers, to London has served to revive interest in her and her husband,

Baron Cedarstrom. The Baron is a perfect specimen of physical development and ath-

lette mainood, but although he is young enough to be her son, Patti looks young beside him. At Craig-y-Nos he goes every day for long wanks, striding like the athlete he is, and Patti accompanies him, tripping

along with the little steps of a child, and

running into the house at the end rosy and panting like a girl.

As far as her beauty is concerned, Patti uses few of the arts which ordinary beauties bring to their aid to prolong the spell of their physical attractions. A great deal has been written about her baths of milk

and the secret concections in cosmetics she

She does not even worry about her ward-

robe, as the majority of women find them-selves compelled to do, deliberating anxious-

ly over different colors, studying which will

likes, takes exercise as she chooses, having old-fashioned notions that it is unwomanly to ride a bicycle and dangerous to intrust

one's life to a motor car. She has no physi-

cian in close attendance to watch every sign of illness and arrest it, and, most mar-

velous of all, in these days of neurotic feminfinism, she has no nerves. Among her fads is one for watches, and every night before

retiring she winds up eight or ten of them,

nd places them in different parts of the

for some time to come, as she finds it diffi-

Patti is likely to make her home in

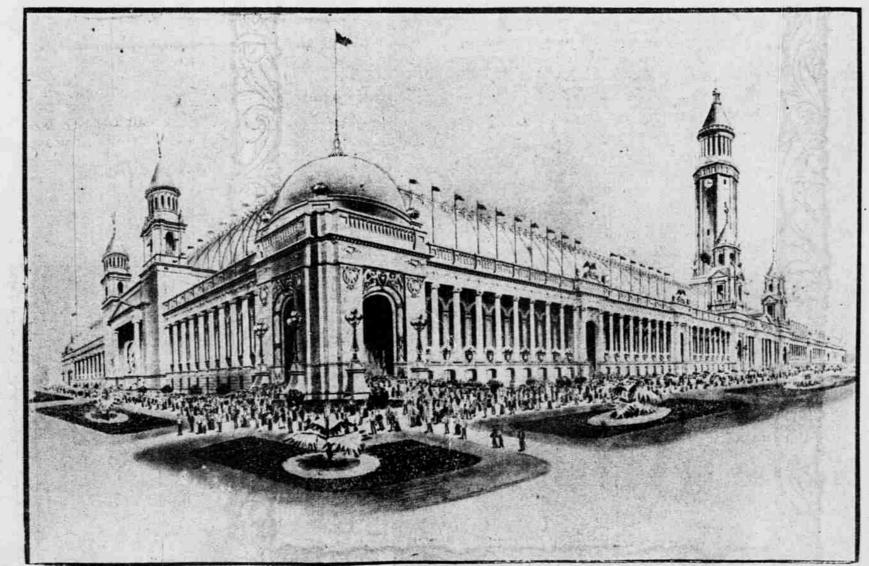
Patti eats what she likes, lives

best set off their charms.

SIMPLE MODE OF LIFE.

MME. ADELINA PATTI'S

of that camp during the rest of the second our journey was perfect. Excavations have lately been in progress amid the ruins of the ancient city of Napata, in Egypt. The ruins are of enormous age and buried to a great depth. One of the explorers, Mr. James Laing, had recently a most perflous experience in his GREAT BUILDINGS OF THE WORLD'S FAIR AS THEY WILL APPEAR WHEN COMPLETED -- No. 1. centily a most perflous experience in his eagerness to wrest its secret from the foundations of one of these palaces. The diggers had piered through forty feet of rubble and found a passage which sloped downward to a depth of sixty or seventy feet below the surface. Here was a circular chamber with walls of heavy stone. Mr. Laing went to work on the floor of this to see what lay below. Suddenly water rushed up through the broken masonry. The Egyptian diggers fled, but the Englishman remained endeavoring to stop the flow. But the water gained on him, and he was obliged to give it up. He dropped his candle and was left in pitch darkness, water up to his waist and uncertain where



One or we sargest numbings in the great group of structures which are intended to | pierce the say a re- re- rece. It will inclose give the World's Fair its architectural stamp is Varied Industries. It is also one of the space. An open court filled with fountains and rare plants will occupy the center of the nost festal palaces forming the principal picture of the Exposition. Its total length is

behind the saddle. In grim slience Mr. King and the other rode back into camp leading

hand took a villa for her just outside of Stockholm, but this summer she will re-main in Wales. The last winter she spent in Italy, her mother's native land, where she has many friends.

Tommy's Definition.

Billy (inexperienced): "Tommy, what's an automatic machine? Do you know?" Tommy (who has tried them): "Yes; one of them things that you put a penny in,